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|             | NETWORK<br>PROTOCOL<br>STACK | DEVICE           | COMMUNICATION DEVICE | FIG. 3 |
|-------------|------------------------------|------------------|----------------------|--------|
| APPLICATION | NETWORK<br>PROTOCOL<br>STACK | DEVICE<br>DRIVER | COMMUNICATION DEVICE | (q) .  |
|             | NETWORK<br>PROTOCOL<br>STACK | DEVICE<br>DRIVER | COMMUNICATION DEVICE |        |
| APPLICATION | NETWORK<br>PROTOCOL STACK    | DEVICE DRIVER    | COMMUNICATION DEVICE | (a)    |
| 171         |                              |                  | 172                  |        |

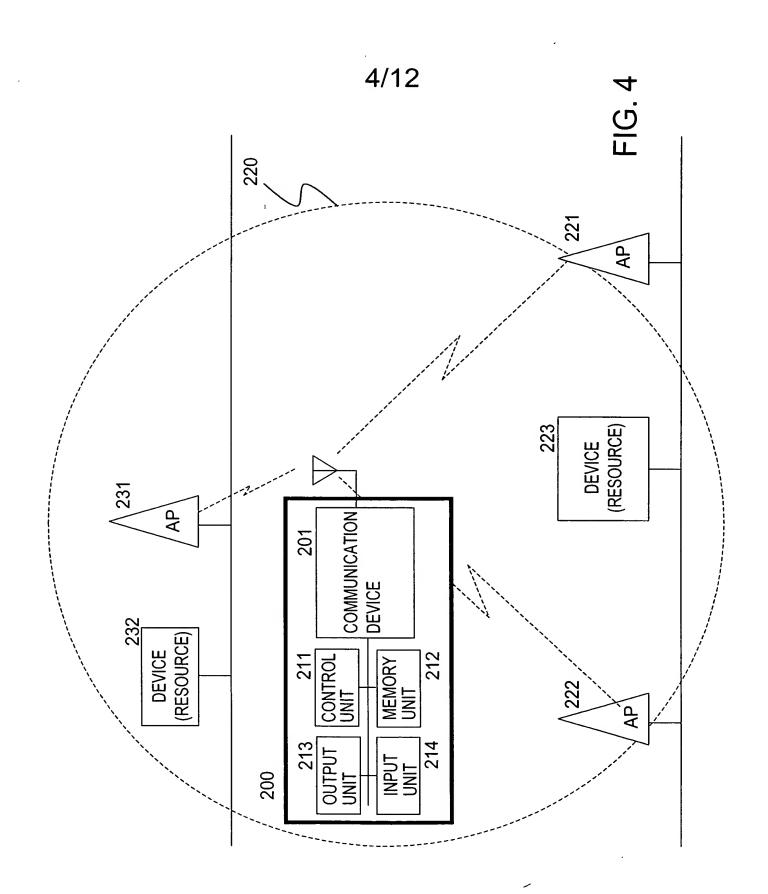
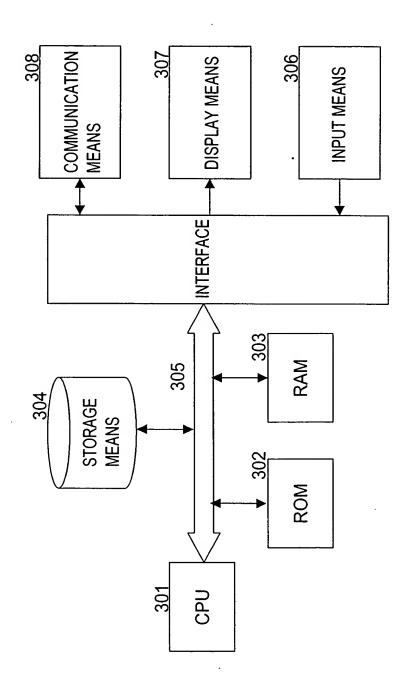
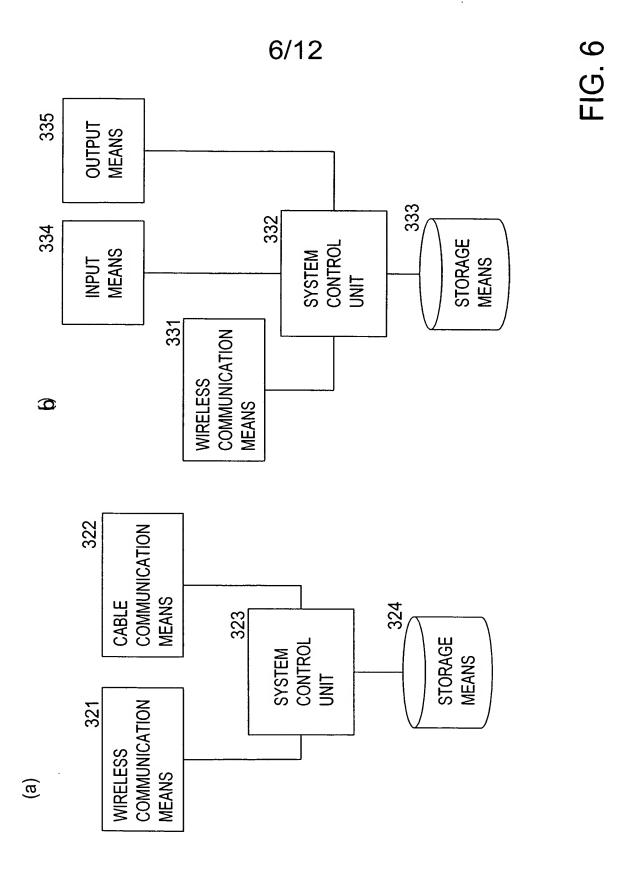


FIG. 5

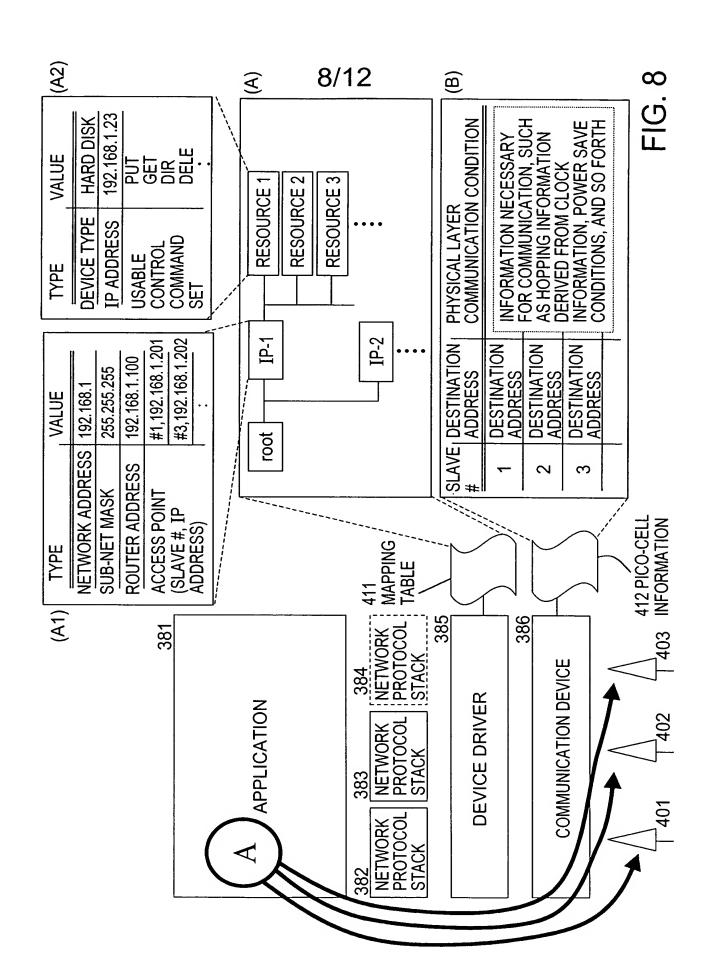


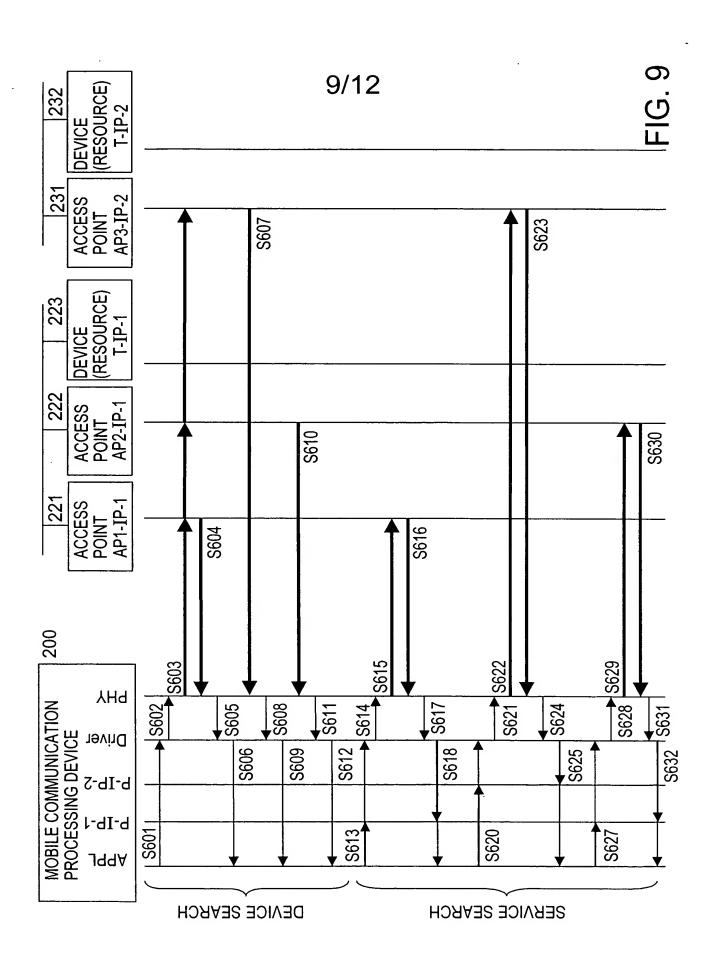


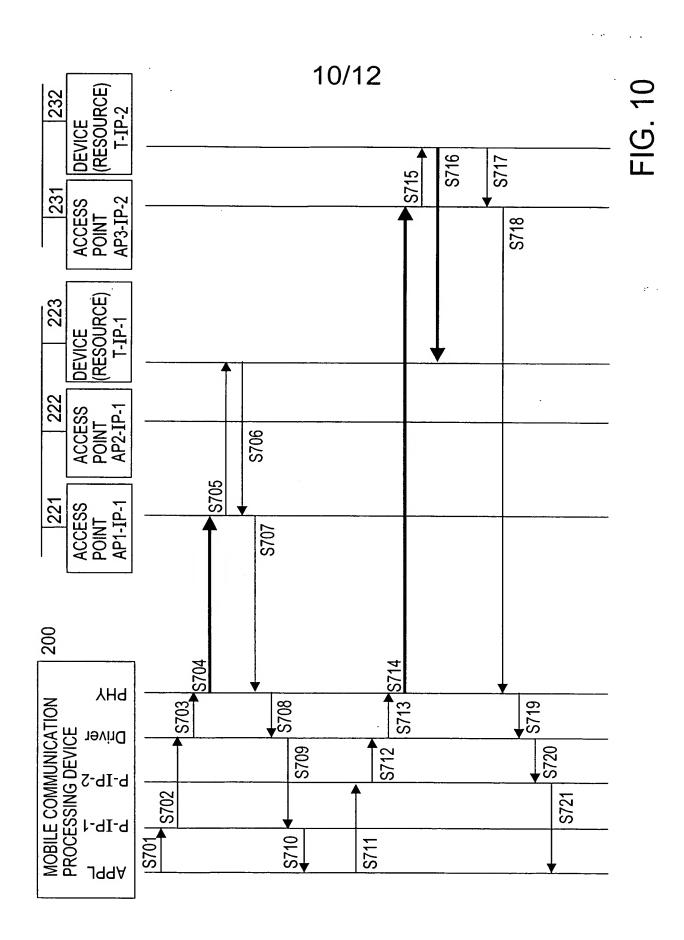
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NETWORK PROTOCOL STACK COMMUNICATION DEVICE **DEVICE DRIVER APPLICATION** NETWORK PROTOCOL STACK NETWORK PROTOCOL STACK 372 371

FIG. 7







## FIG 11

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| RESULTS, AND LOCATION<br>WHERE REFLECTED | WAITING NODE REACTS<br>(SLAVE CANNOT RESPOND<br>DURING COMMUNICATION)      | RENEW PICO-CELL<br>INFORMATION   | SERVICE SEARCH   |   | UPDATE MAPPING TABLE  | ROUTED TO T-IP-1 FROM<br>RECEIVED AP1-IP-1, AND<br>EXECUTED   | ROUTED TO T-IP-2 FROM<br>RECEIVED AP-IP-2, AND<br>EXECUTED   | PROCESSING ACCORDING TO COMMANDS AND INFORMATION AT RECEIVING APPLICATION    |
|--|--|--|--|---|---|---|--|--|
| INFORMATION EXCHANGED                    | CONTROL COMMAND FOR<br>DEVICE SEARCH<br>EQUIVALENT TO IQ WITH<br>BLUETOOTH | DEVICE SEARCH ACK AND SENDER<br>ADDRESS<br>EQUIVALENT TO FHS WITH<br>BLUETOOTH | CONTROL COMMAND FOR SERVICE<br>SEARCH<br>ADDRESS SPECIFIED FOR | EACH ACCESS POINT<br>SET TO RECEIVING SLOT OF<br>RECIPIENT WITH BLUETOOTH | SERVICE SEARCH ACK<br>NETWORK INFORMATION AND<br>RESOURCE INFORMATION | ENTIRE IP PACKET INCLUDING<br>RECEPTION STANDBY REQUEST<br>COMMAND IN PAYLOAD PORTION IS<br>HANDLED AS DATA | ENTIRE IP PACKET INCLUDING<br>TRANSMISSION REQUEST<br>COMMAND IN PAYLOAD PORTION IS<br>HANDLED AS DATA | IP APPLICATION (FOR EXAMPLE:<br>FTP) CONTROL COMMAND AND<br>DATA INFORMATION |
| PACKET TYPE                              | DEVICE SEARCH<br>(BROADCAST)   | DEVICE SEARCH ACK  | SERVICE SEARCH   |   | SERVICE SEARCH ACK  | DATA  | рата   | IP PACKET<br>(NOT LIMITED TO<br>WIRELESS)                                    |
| SEQUENCE #                               | S603   | S604 S607<br>S611  | S615 S622  | 8708  | S616 S623<br>S630   | S704  | S714   | S716   |

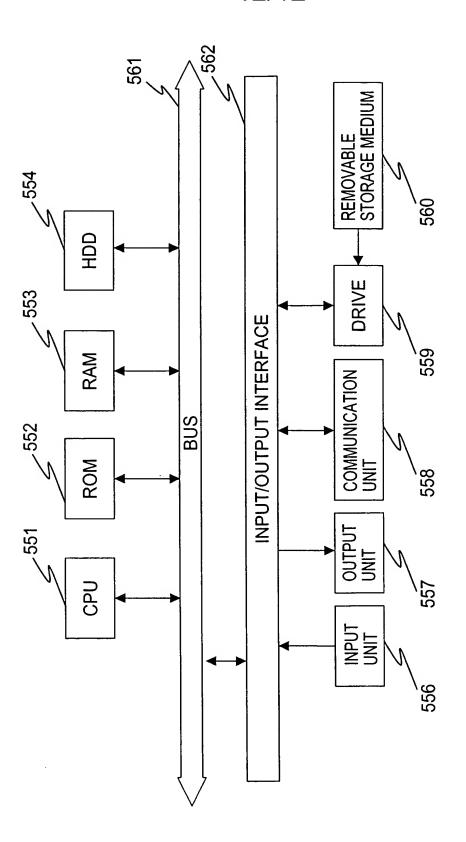


FIG. 12